This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A system, comprising:

at least two server processes, including a first server process and a second server process, adapted to perform tasks issued by a browser;

a cluster a server system comprising two clusters;

wherein each of the two clusters includes:

a first agent process at the cluster <u>that is registered with the first server process to</u> notify the first server process that the first agent process exists to perform tasks for the first server process to complete the tasks issued by the browser;

a second agent process at the cluster that is registered with the second server process to notify the second server process that the second agent process exists to perform tasks for the second server process to complete the tasks issued by the browser, wherein the second server process is different from the first server process with which the first agent process is registered; and

wherein when one of the first agent process and the second agent process fails, the other of the first agent process and the second agent process continues processing in the cluster; and

wherein when one of the two clusters fails, the other one of the two clusters continues processing in the server system.

a first server process with which the first agent process is registered; and a second server process with which the second agent process is registered.

2. (Currently Amended) The system of claim 1, wherein one of the two clusters the cluster is a first cluster, wherein the first server process executes at a second cluster, and wherein the second server process executes at a third cluster.

- 3. (Currently Amended) The system of claim 1, wherein the first server process executes at a first cluster and the second server process executes at a second cluster, and wherein the first cluster and the second cluster comprise a server system.
- 4. (Original) The system of claim 1, wherein at least one of the first server process and the second server process execute at a host system.
- 5. (Currently Amended) The system of claim 1, further comprising:

 persistent data at the cluster each of the two clusters storing configuration and state
 information for one or more storage devices accessed by the cluster, wherein the configuration
 information includes how many storage devices are in the cluster, and wherein the state
 information includes an indication of whether each storage device is available or unavailable.
- 6. (Original) The system of claim 1, further comprising:
 means for, when the first server process and first agent process fail while executing a
 task, executing the task with the second server process and second agent process.
- 7. (Original) The system of claim 1, further comprising: means for, when the first server process and first agent process fail while executing a first task, continuing to execute a second task with the second server process and second agent process.
- 8. (Original) The system of claim 1, further comprising:
 means for detecting a first server and a second server;
 means for registering the first agent process with the first server process at the first server;

means for registering the second agent process with the second server process at the second server;

means for, when a task is to be executed by the first server process, executing the task with the first agent process; and

means for, when the task is to be executed by the second server process, executing the task with the second agent process.

9. (Currently Amended) The system of claim 1, wherein the first agent process <u>and</u> the second agent process are [[is]] launched at the cluster one of the two clusters and further comprising:

means for collecting configuration information, including how many storage devices are in the cluster, and state information, including whether each storage device is available or unavailable;

means for storing the configuration and state information as persistent data at the cluster; under control of the first agent process,

- (i) means for retrieving stored configuration and state information; and
- (ii) means for transmitting the retrieved configuration and state information to the first server process; and

under control of the second agent process,

- (i) means for retrieving stored configuration and state information; and

 (ii) means for transmitting the retrieved configuration and state information to the second server process.
- 10. (Currently Amended) The system of claim 1, wherein the first agent process [[is]] and the second agent process are launched at the cluster at one of the two clusters, and further comprising:

means for receiving at least one of changed configuration information and changed state information for the cluster, wherein the configuration information includes how many storage devices are in the cluster, and wherein the state information includes an indication of whether each storage device is available or unavailable; and

means for storing the at least one of changed configuration information and <u>changed</u> state information as persistent data at the cluster; [[and]]

means for broadcasting the at least one of changed configuration information and changed state information for the cluster; and

under control of the first agent process,

- (i) means for retrieving the stored at least one of changed configuration information and state information; and
- (ii) means for transmitting the retrieved at least one of changed configuration information and state information to the first server process; and

under control of the second agent process,

- (i) means for retrieving the stored at least one of changed configuration information and state information; and
- (ii) means for transmitting the retrieved at least one of changed configuration information and state information to the second server process.
- 11. (Original) The system of claim 1, wherein the first agent process is launched if a first server is configured and wherein the second agent process is launched if a second server is configured.
 - 12. (Original) The system of claim 1, further comprising: under control of the first agent process,

means for receiving a request to execute the task from the first server process; means for storing identification for the first agent process in persistent data; means for invoking a driver process for executing the task; means for receiving task completion status from the driver process; and means for forwarding the task completion status to the first server process.

13. (Currently Amended) A method for task processing and monitoring of configuration and state information, comprising:

detecting a first server comprising two clusters, wherein the server is adapted to perform tasks issued by a browser and a second server;

at each of the two clusters,

registering a first agent process with a first server process to notify the first server process that the first agent process exists to perform tasks for the first server process to complete the tasks issued by the browser at the first server;

registering a second agent process with a second server process to notify the second server process that the second agent process exists to perform tasks for the second server process to complete the tasks issued by the browser, wherein the second server process is different from the first server process with which the first agent process is registered at the second server;

when a task is to be executed by the first server process, executing the task with the first agent process; [[and]]

when the task is to be executed by the second server process, executing the task with the second agent process; and

wherein when one of the first agent process and the second agent process fails, the other of the first agent process and the second agent process continues processing in the cluster; and

wherein when one of the two clusters fails, the other one of the two clusters continues processing in the server system..

14. (Currently Amended) The method of claim 13, further comprising:

at each of the two clusters, storing configuration and state information for one or more storage devices accessed by [[a]] that cluster as persistent data at the cluster, wherein the configuration information includes how many storage devices are in the cluster, and wherein the state information includes an indication of whether each storage device is available or unavailable.

15. (Currently Amended) The method of claim 14, wherein the first agent process is launched at the cluster one of the two clusters and further comprising:

collecting configuration information, including how many storage devices are in the cluster, and state information, including whether each storage device is available or unavailable; storing the configuration and state information as persistent data at the cluster; under control of the first agent process,

- (i) retrieving the stored configuration and state information; and
- (ii) transmitting the retrieved configuration and state information to the first server process.

16. (Currently Amended) The method of claim 13, wherein the second agent process is launched at the cluster one of the two clusters and further comprising:

collecting configuration information, including how many storage devices are in the cluster, and state information, including whether each storage device is available or unavailable; storing the configuration and state information as persistent data at the cluster; under control of the second agent process,

- (i) retrieving the stored configuration and state information; and
- (ii) transmitting the retrieved configuration and state information to the second server process.
- 17. (Currently Amended) The method of claim 13, wherein the first agent process is launched at the cluster one of the two clusters and further comprising:

receiving at least one of changed configuration information and changed state information for the cluster, wherein the configuration information includes how many storage devices are in the cluster, and wherein the state information includes an indication of whether each storage device is available or unavailable;

storing the at least one of changed configuration information and <u>changed</u> state information as persistent data at the cluster;

broadcasting the at least one of changed configuration information and changed state information for the cluster; and

under control of the first agent process,

- (i) retrieving the stored at least one of changed configuration information and state information; and
- (ii) transmitting the retrieved at least one of changed configuration information and state information to the first server process.
- 18. (Currently Amended) The method of claim 14, wherein the second agent process is launched at the cluster one of the two clusters and further comprising:

receiving at least one of changed configuration information and changed state information for the cluster, wherein the configuration information includes how many storage

devices are in the cluster, and wherein the state information includes an indication of whether each storage device is available or unavailable;

storing the at least one of changed configuration information and <u>changed</u> state information as persistent data at the cluster;

broadcasting the at least one of changed configuration information and changed state information for the cluster; and

under control of the second agent process,

- (i) retrieving the stored at least one of changed configuration information and state information; and
- (ii) transmitting the retrieved at least one of changed configuration information and state information to the second server process.
- 19. (Original) The method of claim 13, wherein the first agent process is launched if a first server is configured and wherein the second agent process is launched if a second server is configured.
 - 20. (Original) The method of claim 13, further comprising: under control of the first agent process,

receiving a request to execute the task from the first server process; storing identification for the first agent process in persistent data; invoking a driver process for executing the task; receiving task completion status from the driver process; and forwarding the task completion status to the first server process.

21. (Original) The method of claim 13, further comprising: under control of the second agent process,

receiving a request to execute the task from the second server process; storing identification for the second agent process in persistent data; invoking a driver process for executing the task; receiving task completion status from the driver process; and forwarding the task completion status to the second server process.

22. (Currently Amended) An article of manufacture <u>embodied as a computer readable</u> <u>storage medium</u> for task processing and monitoring of configuration and state information, wherein the article of manufacture is capable of causing operations to be performed, the operations comprising:

detecting a first server comprising two clusters, wherein the server is adapted to perform tasks issued by a browser and a second server;

at each of the two clusters,

registering a first agent process with a first server process to notify the first server process that the first agent process exists to perform tasks for the first server process to complete the tasks issued by the browser at the first server;

registering a second agent process with a second server process to notify the second server process that the second agent process exists to perform tasks for the second server process to complete the tasks issued by the browser, wherein the second server process is different from the first server process with which the first agent process is registered at the second server;

when a task is to be executed by the first server process, executing the task with the first agent process; [[and]]

when the task is to be executed by the second server process, executing the task with the second agent process; and

wherein when one of the first agent process and the second agent process fails, the other of the first agent process and the second agent process continues processing in the cluster; and

wherein when one of the two clusters fails, the other one of the two clusters continues processing in the server system.

23. (Currently Amended) The article of manufacture of claim 22, wherein the operations further comprise:

at each of the two clusters, storing configuration and state information for one or more storage devices accessed by [[a]] that cluster as persistent data at the cluster, wherein the configuration includes how many storage devices are in the cluster, and wherein the

state information includes an indication of whether each storage device is available or unavailable.

24. (Currently Amended) The article of manufacture of claim 23, wherein the first agent process is launched at the cluster one of the two clusters and wherein the operations further comprise:

collecting configuration information, including how many storage devices are in the cluster, and state information, including whether each storage device is available or unavailable; storing the configuration and state information as persistent data at the cluster; under control of the first agent process,

- (i) retrieving the stored configuration and state information; and
- (ii) transmitting the retrieved configuration and state information to the first server process.
- 25. (Currently Amended) The article of manufacture of claim 23, wherein the second agent process is launched at the cluster one of the two clusters and wherein the operations further comprise:

collecting configuration information, including how many storage devices are in the cluster, and state information, including whether each storage device is available or unavailable; storing the configuration and state information as persistent data at the cluster; under control of the second agent process,

- (i) retrieving the stored configuration and state information; and
- (ii) transmitting the retrieved configuration and state information to the second server process.
- 26. (Currently Amended) The article of manufacture of claim 23, wherein the first agent process is launched at the cluster one of the two clusters and wherein the operations further comprise:

receiving at least one of changed configuration information and changed state information for the cluster, wherein the configuration information includes how many storage

devices are in the cluster, and wherein the state information includes an indication of whether each storage device is available or unavailable;

storing the at least one of changed configuration information and <u>changed</u> state information as persistent data at the cluster;

broadcasting the at least one of changed configuration information and changed state information for the cluster; and

under control of the first agent process,

- (i) retrieving the stored at least one of changed configuration information and state information; and
- (ii) transmitting the retrieved at least one of changed configuration information and state information to the first server process.
- 27. (Currently Amended) The article of manufacture of claim 23, wherein the second agent process is launched at the cluster one of the two clusters and wherein the operations further comprise:

receiving at least one of changed configuration information and changed state information for the cluster, wherein the configuration information includes how many storage devices are in the cluster, and wherein the state information includes an indication of whether each storage device is available or unavailable;

storing the at least one of changed configuration information and <u>changed</u> state information as persistent data at the cluster;

broadcasting the at least one of changed configuration information and changed state information for the cluster; and

under control of the second agent process,

- (i) retrieving the stored at least one of changed configuration information and state information; and
- (ii) transmitting the retrieved at least one of changed configuration information and state information to the second server process.

- 28. (Original) The article of manufacture of claim 22, wherein the first agent process is launched if a first server is configured and wherein the second agent process is launched if a second server is configured.
- 29. (Original) The article of manufacture of claim 22, wherein the operations further comprise:

under control of the first agent process,

receiving a request to execute the task from the first server process; storing identification for the first agent process in persistent data; invoking a driver process for executing the task; receiving task completion status from the driver process; and forwarding the task completion status to the first server process.

30. (Original) The article of manufacture of claim 22, wherein the operations further comprise:

under control of the second agent process,

receiving a request to execute the task from the second server process; storing identification for the second agent process in persistent data; invoking a driver process for executing the task; receiving task completion status from the driver process; and forwarding the task completion status to the second server process.